$\ \, \textbf{Table A1. Topics Covered in the Program} \\$

Worl	kshop Overvie	·W				
	Week1	Week2	Week3	Week4	Week5	Week6
Overview of self-management and diabetes	3+					3+
Introduction to diabetes	2+					
Understanding your numbers: Glucose, blood pressure, body mass index	>					200
Healthy Eating	2+	>→	>	>>		
Making an action plan	3+	>>	>>	>>	>	3>
Feedback/problem-solving		>→	>	>>	>	3+
Diabetes self-management wheel		>→				
Glucose monitoring		>>	> +			
Exercise		>→				
Difficult emotions				>>		
Using your mind to manage symptoms/stress				>>	>	
Weight control				>>		
Hypoglycemia (low blood glucose)				300		
Depression				>		
Relationships with family					>	
Working with the health care system					>	
Medications					>	
Sick days						3+
Future plans						3+

Table A2. Demographic Values, by American Indian/Alaska Natives or non AI/NA

Outcome	Non AI/AN				America Alaska N	n Indian Natives	1			All participants					
Variable	Control N=220	no reinfrc.	Treatment With reinfrc	(all)	P, Control versus Treatment	Control	no reinfrc.	Treatment With reinfrc.	(all)	P, Control versus Treatment	Control	no reinfrc.	Treatment With reinfrc.	(all)	P, Control versus Treatment
		N=31	N=29	N=431		N=50	N=31	N=29	N=60		N=270	N=259	N=232	N=491	
Age	55.0 (10.7)	55.1 (10.1)	54.2 (9.85)	54.7 (9.96)	.699	51.9 (9.42)	50.5 (7.62)	50.5 (9.85)	50.5 (8.69)	.430	54.4 (10.6)	54.6 (9.90)	53.8 (9.90)	54.2 (9.90)	.736
Percent Married	66.4	67.1	69.5	68.2	.634	64.0	58.1	44.8	51.7	.786	65.9	66.0	66.4	66.2	.941
Education (years)	16.0 (3.07)	15.6 (2.98)	15.9 (2.98)	15.7 (2.98)	.307	14.8 (2.81)	15.3 (2.38)	16.0 (2.73)	15.6 (2.56)	.105	15.8 (3.06)	15.6 (2.92)	15.9 (2.94)	15.7 (2.93)	.842
Percent non- Hispanic White	87.3	87.3	90.6	88.9	.551	-	-	-	-	-	71.1	76.8	79.3	78.0	.034
Percent Male	30.5	23.3	31.5	27.1	.376	22.0	22.6	17.2	20.0	.800	28.9	23.2	29.7	26.3	.439

Table A3. Baseline, All Participants

Outcome Variable	Control	Treatment, no reinforcement	Treatment & reinforcement	Treatment combined	T vs. Control	R vs. Control	R vs. T	C vs. R+T
	N=270	(T) N=259	(R) N=232	T plus R N=491	P	P	P	P
A1c↓	6.40 (1.32)	6.50 (1.31)	6.43 (1.02)	6.47 (1.18)	.405	.785	.532	.736
Health Distress (0-5)↓	2.08 (1.18)	1.98 (1.17)	1.92 (1.10)	1.95 (1.14)	.375	.138	.555	.941
Activity Limitation (0-4)↓	1.22 (1.07)	1.09 (1.02)	1.10 (1.04)	1.10 (1.03)	.167	.198	.962	.842
PHQ Depression (0-27) ↓	7.97 (6.46)	7.47 (5.89)	7.14 (5.24)	7.32 (5.58)	.350	.112	.515	.034
PAM Patient Activation (0-100) ↑	64.5 (14.4)	64.5 (14.3)	65.7 (14.6)	64.9 (14.4)	.995	.369	.370	.439
Self Efficacy (1-10) ↑	7.97 (1.86)	6.78(2.11)	6.92 (1.88)	6.85 (2.00)	.949	.338	.410	.495
Aerobic exercise (min/week)↑	104.1 (140)	93.6 (116)	103.8 (155)	98.4 (136)	.348	.980	.417	.175
Physician Visits (last 6 months)	3.38 (3.20)	3.36 (3.47)	3.65 (2.96)	3.49 (3.24)	.949	.339	.329	.121

Table A4 6-Month Completers and Non-completers

Baseline Variable	Completed	Did not		Non-Comple	eters	
	6-month	complete	P	Treatment	Control	P
	N=633	6-month N=128		N=96	N=32	
Age	54.7 (10.2)	52.3 (9.79)	.015	53.1 (9.40)	49.9 (10.7)	.117
Percentage Married	57.8	67.8	.030	55.2	65.6	.305
Education (years)	15.8 (3.03)	15.6 (2.66)	.550	15.8 (2.70)	15.0 (2.48)	.162
Percent non-Hispanic White	78.5	60.9	<.001	63.5	53.1	.299
Percent Male	26.7	29.7	.489	32.3	21.9	.268
A1c↓	6.68 (1.61)	6.89 (1.63)	.001	6.72 (1.82)	6.94 (1.57)	.506
Health Distress (0-5)↓	2.22 (1.25)	1.94 (1.13)	.014	2.17 (1.24)	2.38 (1.30)	.419
Activity Limitation (0-4)↓	1.11 (1.01)	1.31 (1.01)	.074	1.25 (1.14)	1.47 (1.30)	.371
PHQ Depression (0-27) ↓	7.46 (5.97)	7.97 (5.65)	.379	8.14 (6.66)	7.47 (6.66)	.565
PAM Patient Activation (0-100) ↑	64.6 (14.4)	66.1 (14.6)	.286	66.0 (14.4)	66.4 (15.2)	.892
Self Efficacy (1-10) ↑	6.82 (1.97)	6.82 (1.89)	.994	6.76 (1.97)	6.98 (1.68)	.581
Aerobic exercise (min/week)↑	99.8 (139)	103.6 (129)	.781	151.1(161)	87.7 (112)	.046
Physician Visits (last 6 months)	3.43 (3.24)	3.56 (3.17)	.682	3.41 (2.84)	4.03 (4.00)	.419

Table A5 18-Month Completers and Non-completers

Baseline Variable	Completed	Did not		Non-Comple	eters	
	18-month	complete	P	Treatment	Control	P
	N=528	18-month N=123		N=89	N=34	
Age	55.3 (10.1)	52.8 (10.6)	.015	53.6 (10.5)	50.7 (10.7)	.169
Percentage Married	68.2	65.0	.503	62.9	70.6	.429
Education (years)	15.8 (2.98)	15.9 (3.15)	.926	16.3 (3.11)	15.7 (3.17)	.374
Percent non-Hispanic White	89.4	83.7	.118	85.4	79.4	.426
Percent Male	28.0	29.3	.784	32.6	20.6	.194
A1c↓	6.29 (1.03)	6.68 (1.61)	.010	6.76 (1.55)	6.49 (1.78)	.422
Health Distress (0-5)↓	1.90 (1.13)	2.22 (1.27)	.006	2.16 (1.12)	2.36 (1.15)	.380
Activity Limitation (0-4)↓	1.08 (0.999)	1.27 (1.17)	.102	1.17 (1.08)	1.53 (1.37)	.125
PHQ Depression (0-27) ↓	7.19 (5.81)	8.28 (6.19)	.064	7.70 (5.50)	9.82 (7.60)	.143
PAM Patient Activation (0-100) ↑	64.7 (14.3)	66.9 (14.1)	.115	67.5 (14.4)	65.4 (13.4)	.468
Self Efficacy (1-10) ↑	6.87 (1.92)	6.85 (1.94)	.931	6.90 (2.00)	6.72 (1.82)	.645
Aerobic exercise (min/week)↑	102 (139)	107 (149)	.703	105 (155)	113 (135)	.795
Physician Visits (last 6 months)	3.52 (3.24)	3.32 (2.81)	.516	3.33 (2.49)	3.29 (3.69)	.963

Table A6 Eighteen Month Changes

Outcome Variable	Control Mean (SD)	Treatment Mean (SD)	Control v	Control vs. Treatment				
	N=186	N=342	Effect Size	P	P (intent to treat)			
Health Distress (0-5)↓	-0.296 (1.12)	-0.312 (1.02)	0.014	.393	.510			
Activity Limitation (0-4)↓	0.043 (1.06)	-0.031 (0.970)	0.012	.993	.489			
PHQ Depression (0-27) ↓	-1.35 (4.48)	-1.19 (4.43)	-0.027	.994	.585			
PAM Patient Activation (0-100) ↑	4.90 (13.8)	7.57 (14.9)	0.187	.016	.052			
Self Efficacy (1-10) ↑	-0.001 (1.76)	0.280 (1.83)	0.146	.007	.002			
Aerobic exercise (min/week)↑	-0.575 (196)	2.041 (150)	0.179	.827	.873			
Physician Visits (last 6 months)	-0.634 (2.68)	-0.292 (3.50)	0.107	.095	.067			

Notes: Effect Sizes are computed as the difference in change scores between treatment and control groups divided by the pooled baseline standard deviation. Negative effect sizes indicate that the control group did better than the treatment group.

Table A7 Six Month Reinforcement Comparison

	Unreinforced	Reinforced	Unreinfo	rced vs.
Outcome Variable	Mean (SD)	Mean (SD)	Reinforce	ed
			Effect	P value
	N=209	N=186	Size	
A1c↓	-0.034 (0.844)	0.018 (0.862)	-0.044	.539
Health Distress (0-5)↓	-0.348 (1.03)	-0.082 (0.988)	-0.234	.007
Activity Limitation (0-4)↓	-0.019 (0.869)	0.009 (0.983)	-0.010	.719
PHQ Depression (0-27) ↓	-1.072 (4.44)	-0.398 (4.03)	-0.120	.117
PAM Patient Activation (0-100) ↑	6.24 (14.5)	5.09 (14.3)	-0.080	.897
Self Efficacy (1-10) ↑	0.321 (1.99)	0.160 (1.73)	-0.081	.836
Aerobic exercise (min/week)↑	12.09 (146)	1.41(167)	-0.079	.968
Physician Visits (last 6 months)	-0.121 (3.54)	-0.024 (3.56)	0.097	.990

Notes: Effect Sizes are computed as the difference in change scores between treatment and control groups divided by the pooled baseline standard deviation. Negative effect sizes indicate that the control group did better than the treatment group.

Table A8 Eighteen Month Reinforcement Comparison

	Unreinforced	Reinforced	Unreinfo	rced vs.
Outcome Variable	Mean (SD)	Mean (SD)	Reinforce	ed
			Effect	P value
	N=202	N=174	Size	
Health Distress (0-5)↓	-0.434 (1.11)	-0.227 (0.960)	-0.181	.079
Activity Limitation (0-4)↓	-0.121 (0.943)	0.009 (0.993)	-0.126	.157
PHQ Depression (0-27) ↓	-1.85 (4.74)	-0.609 (4.15)	-0.222	.018
PAM Patient Activation (0-100) ↑	9.06 (15.2)	6.08 (14.3)	-0.207	.170
Self Efficacy (1-10) ↑	0.412 (1.97)	0.229 (1.70)	-0.092	.713
Aerobic exercise (min/week)↑	6.049 (141)	-0.676 (152)	-0.049	.986
Physician Visits (last 6 months)	-0.463 (3.17)	-0.193 (3.74)	0.084	.113

Notes: Effect Sizes are computed as the difference in change scores between treatment and control groups divided by the pooled baseline standard deviation. Negative effect sizes indicate that the control group did better than the treatment group.

Table A9 Six-Month Change, Participants with baseline A1c of 7 and above

Control	Treatment	Control v	s. Treatment
Mean (SD)	Mean (SD)	Effect	P value
N=46	N=73	Size	
-0.063 (1.38)	-0.677 (1.42)	0.499	.010
-0.364 (0.923)	-0.281 (1.22)	-0.072	.723
-0.076 (1.02)	-0.106 (0.984)	0.029	.585
1.20 (1.00)	1.00 (1.10)	0.012	
-1.30 (4.88)	-1.23 (4.16)	-0.012	.582
2.02 (12.1)	2.52 (1.4.2)	0.025	116
3.02 (13.1)	3.52 (14.3)	0.035	.116
0.022 (2.03)	0.087 (2.22)	0.033	.040
0.022 (2.03)	0.007 (2.22)	0.033	.040
-16.17 (112)	-3.35 (109)	0.094	.106
	· 		
0.413 (1.88)	-0.282 (3.06)	0.216	.735
	Mean (SD) N=46 -0.063 (1.38) -0.364 (0.923) -0.076 (1.02) -1.30 (4.88) 3.02 (13.1) 0.022 (2.03) -16.17 (112)	Mean (SD) Mean (SD) N=46 N=73 -0.063 (1.38) -0.677 (1.42) -0.364 (0.923) -0.281 (1.22) -0.076 (1.02) -0.106 (0.984) -1.30 (4.88) -1.23 (4.16) 3.02 (13.1) 3.52 (14.3) 0.022 (2.03) 0.087 (2.22) -16.17 (112) -3.35 (109)	Mean (SD) Mean (SD) Effect N=46 N=73 Size -0.063 (1.38) -0.677 (1.42) 0.499 -0.364 (0.923) -0.281 (1.22) -0.072 -0.076 (1.02) -0.106 (0.984) 0.029 -1.30 (4.88) -1.23 (4.16) -0.012 3.02 (13.1) 3.52 (14.3) 0.035 0.022 (2.03) 0.087 (2.22) 0.033 -16.17 (112) -3.35 (109) 0.094

Note: Effect Sizes are computed as the difference in change scores between treatment and control groups divided by the pooled baseline standard deviation. Negative effect sizes indicate that the control group did better than the treatment group.

Table A10. Six-Month Change Scores, Non AI/AN Participants Only

Outcome Variable	Control	Treatment, no reinforcement	Treatment & reinforcement	T vs. Control		R vs. Control		R vs. T		C vs. R+T	
	N=200	(T) N=191	(R) N=169	P ITT	P actual	P ITT	P actual	P ITT	P actual	P ITT	P actual
HbA1c	0.112 (0.741)	0.037 (0.812)	-0.038 (0.817)	.159	.066	.310	.377	.721	.371	.158	.045
Health Distress	-0.278 (0.864)	-0.295 (1.00)	-0.040 (0.994)	.653	.377	.020	.054	.005	.006	.307	.587
Activity Limitation	0.022 (0.850)	-0.003 (0.835)	0.043 (0.999)	.532	.480	.950	.870	.583	.605	.681	.604
PHQ Depression	-0.855 (3.82)	-1.037 (4.16)	-0.260 (4.10)	.480	.302	.285	.402	.077	.069	.866	.876
PAM	3.47 (14.0)	6.27 (14.8)	5.43 (14.3)	.051	.036	.135	.062	.685	.861	.045	.021
Self Efficacy	-0.231 (1.76)	0.360 (1.94)	0.094 (1.67)	<.001	<.001	.007	.005	.272	.272	<.001	<.001
Aerobic Exercise (min/week)	-2.975 (132)	11.101 (149)	0.125 (171)	.496	.318	.820	.456	.662	.823	.592	.307
Physician Visits	-0.111 (3.45)	-0.191 (3.43)	-0.389 (3.58)	.781	.826	.800	.762	.987	.930	.758	.761

Table A11 Six-Month Change Scores, AI/AN Participants

Outcome Variable	Control (C)	Treatment, no reinforcement	Treatment & reinforcement	T vs. Control		R vs. Control		R vs. T		C vs. R+T	
	N=38	(T) N=18	(R) N=17	P ITT	P actual	P ITT	P actual	P ITT	P actual	P ITT	P actual
HbA1c	0.206 (0.973)	0.025 (1.21)	-0.186 (1.30)	.694	.716	.173	.300	.371	.574	.297	.379
Health Distress	-0.151 (0.730)	-0.917 (1.11)	-0.500 (0.833)	.020	.003	.186	.079	.404	.288	.025	.004
Activity Limitation	0.092 (0.843)	-0.194 (1.18)	-0.324 (0.754)	.102	.068	.041	.024	.659	.696	.028	.012
PHQ Depression	-0.737 (3.84)	-1.444 (6.93)	-1.756 (3.05)	.878	.405	.576	.232	.703	.734	.677	.214
PAM	4.47 (6.4)	5.88 (11.9)	1.50 (14.7)	.845	.712	.506	.850	.661	.889	.612	.722
Self Efficacy	-0.056(1.40)	-0.090 (2.52)	0.816 (2.25)	.418	.263	.266	.036	.084	.007	.896	.584
Aerobic Exercise (min/week)	3.32 (118)	23.12 (106)	14.12 (121)	.956	.952	.688	.650	.749	.659	.789	.810
Physician Visits	-0.658(.86)	0.611 (4.54)	1.26 (3.07)	.145	.148	.072	.017	.702	.387	.052	.019

FIGURE A1. Participants in Randomized Trial and Longitudinal Follow-up

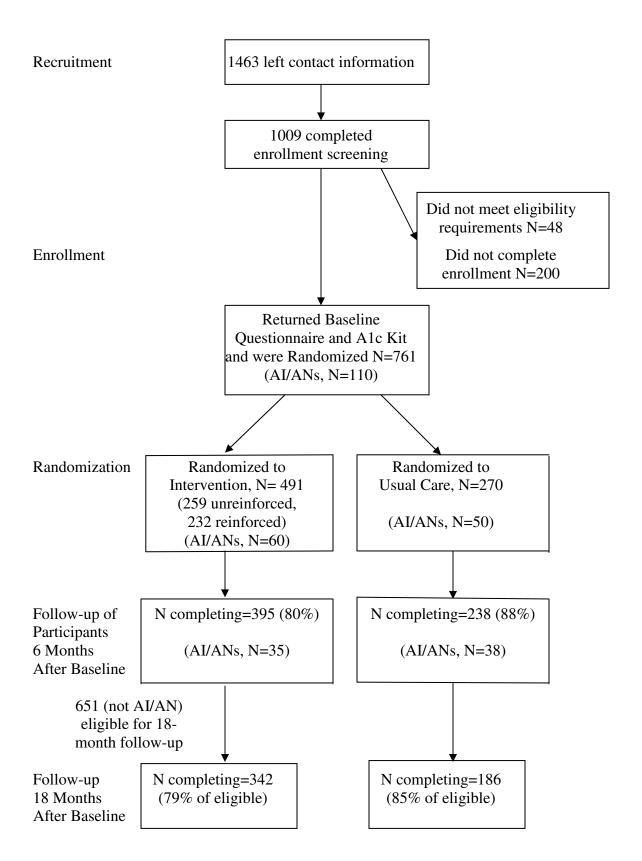


FIGURE A2. American Indian/Alaskan Native Participants in Randomized Trial and Longitudinal Follow-up

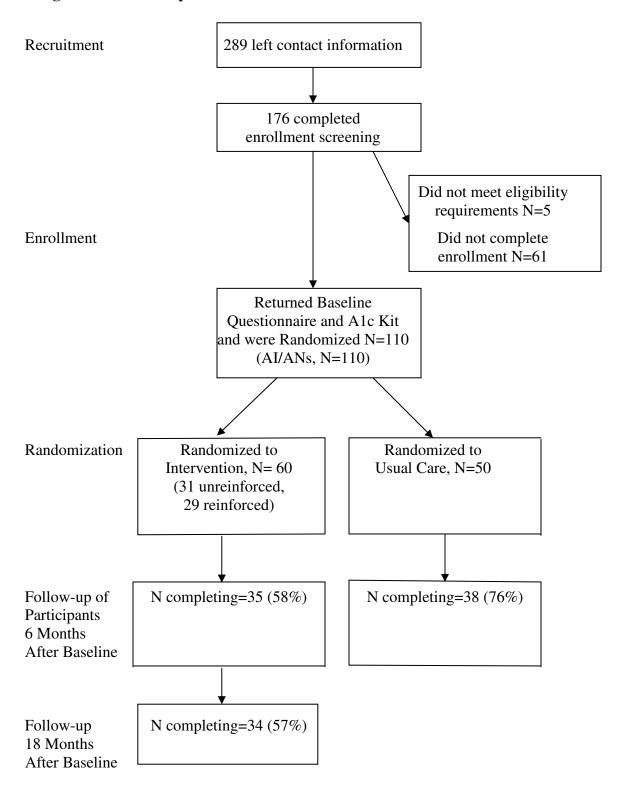


FIGURE A3. Participants in Reinforcement Study

